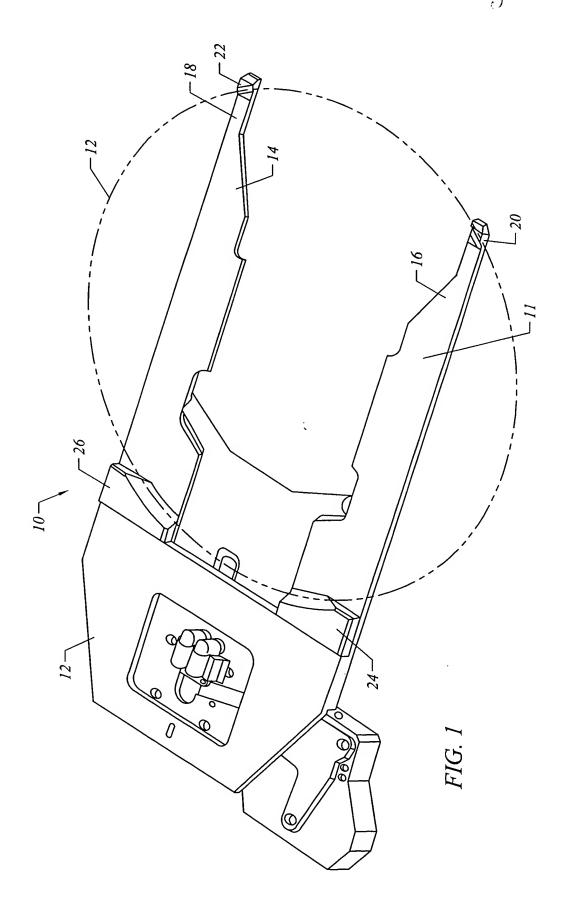
Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al.
Attorney: Scott D. Sanford Telephone: 415-984-8700
Filed: July 21, 2003 Express Mail Label No. EV328491387
Sheet 1 of 12



Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al.
Attorney: Scott D. Sanford Telephone: 415-984-8700
Filed: July 21, 2003 Express Mail Label No. EV328491387 Inventors: Theodore Rogers et al. Attorney: Scott D. Sanford Filed: July 21, 2003 Sheet 2 of 12

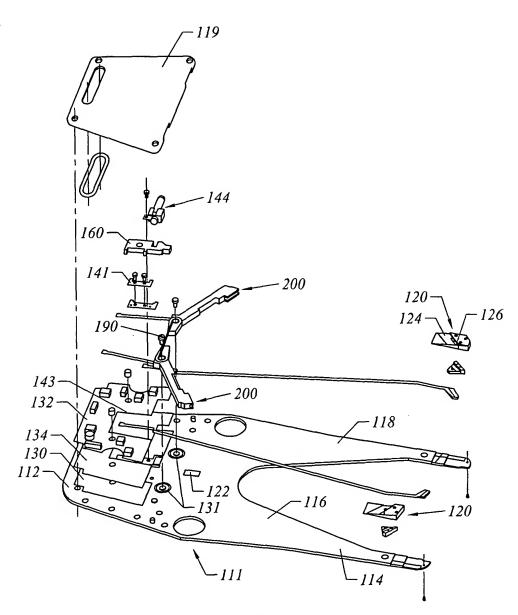


FIG. 2

Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al.
Attorney: Scott D. Sanford
Filed: July 21, 2003
Sheet 3 of 12

Telephone: 415-984-8700
Express Mail Label No. E

Telephone: 415-984-8700 Express Mail Label No. EV328491387

-119 102--112 -122 200-- 200 210--210 -216 216 -111 -13 C118 -116 12 124 - 124 126 -126 120-120

FIG. 3

Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al. Docket No.: 34741-872
Attorney: Scott D. Sanford Telephone: 415-984-8700
Filed: July 21, 2003 Express Mail Label No. EV328491387
Sheet 4 of 12

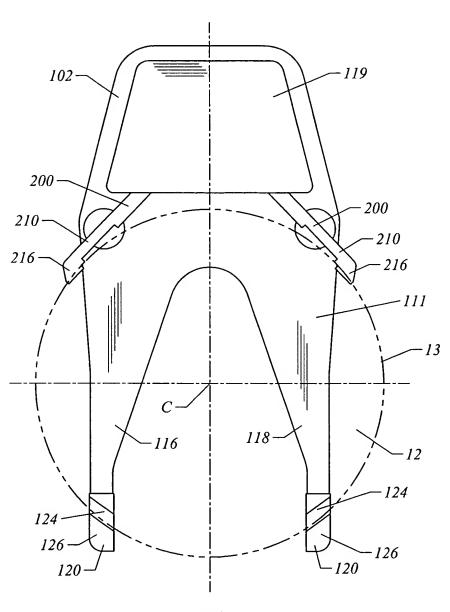
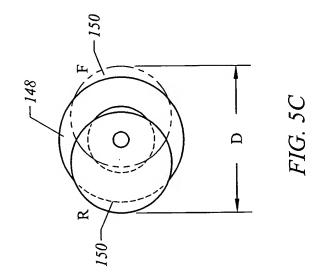
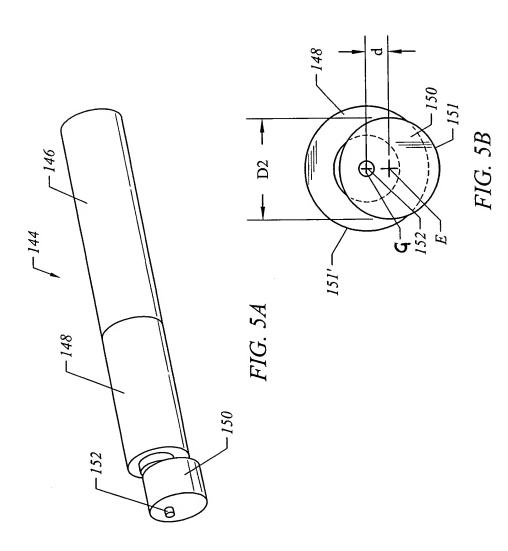


FIG. 4

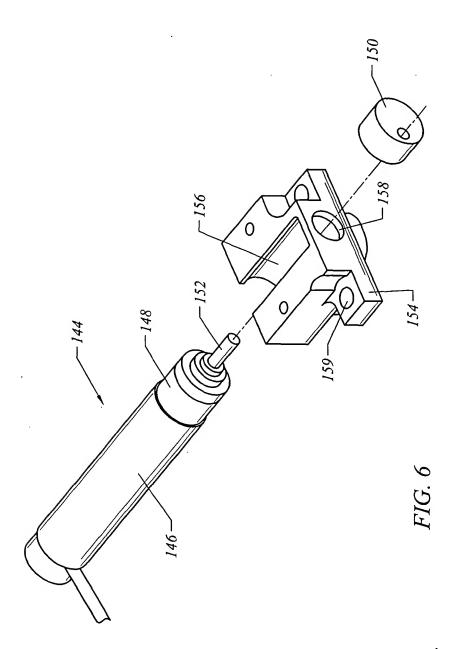
Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al.
Attorney: Scott D. Sanford
Filed: July 21, 2003
Sheet 5 of 12

EFFECTOR
Docket No.: 34741-872
Telephone: 415-984-8700
Express Mail Label No. EV328491387





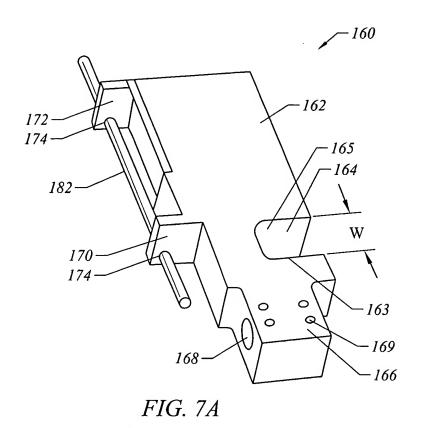
Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al.
Attorney: Scott D. Sanford Telephone: 415-984-8700
Filed: July 21, 2003 Express Mail Label No. EV328491387
Sheet 6 of 12



Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al.
Attorney: Scott D. Sanford
Filed: July 21, 2003
Sheet 7 of 12

Telephone: 415-984-870
Express Mail Label No. 1

Telephone: 415-984-8700 Express Mail Label No. EV328491387



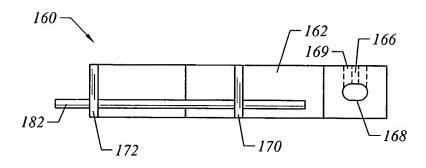
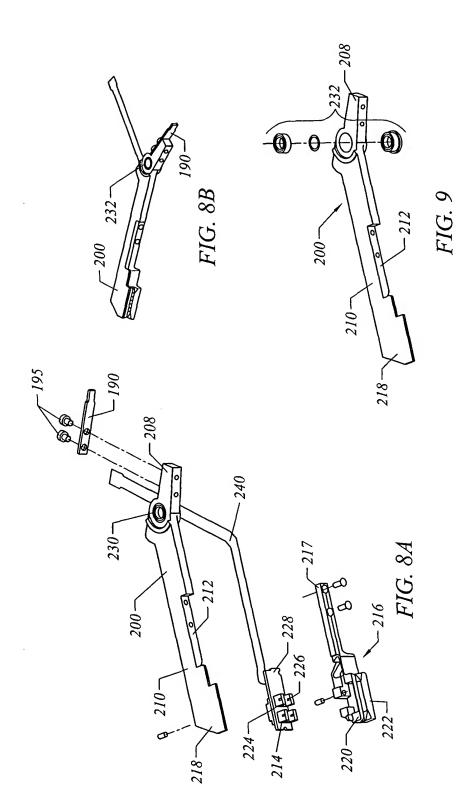


FIG. 7B

Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al. Docket No.: 34741-872
Attorney: Scott D. Sanford Telephone: 415-984-8700
Filed: July 21, 2003 Express Mail Label No. EV328491387
Sheet 8 of 12



Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al. Docket No.
Attorney: Scott D. Sanford Telephone:

Filed: July 21, 2003 Sheet 9 of 12

Docket No.: 34741-872 Telephone: 415-984-8700 Express Mail Label No. EV328491387

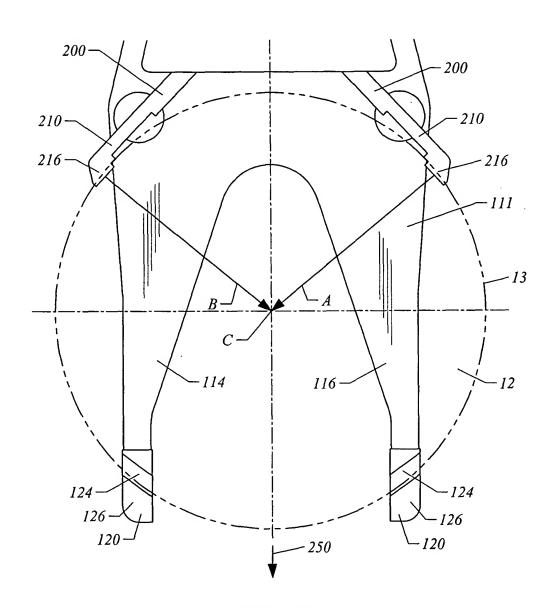


FIG. 10

Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al. Docket No.: 34741-872
Attorney: Scott D. Sanford Telephone: 415-984-870
Filed: July 21, 2003 Express Mail Label No. 1
Sheet 10 of 12

Telephone: 415-984-8700 Express Mail Label No. EV328491387

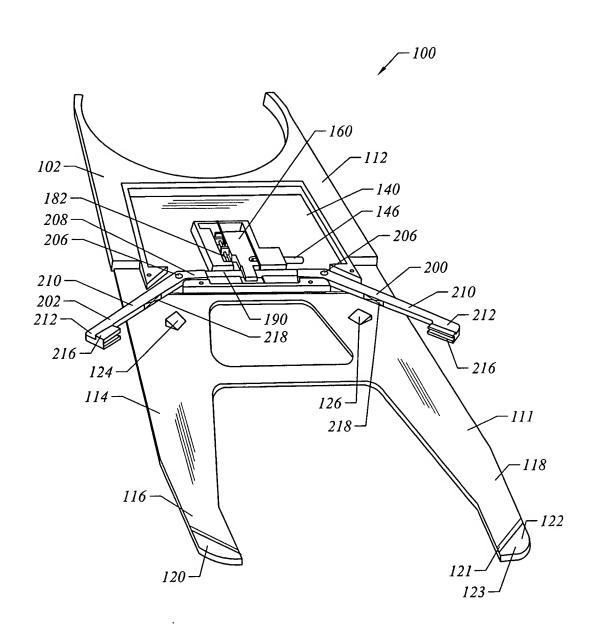


FIG. 11

Title: ACTIVE EDGE GRIPPING END EFFECTOR
Inventors: Theodore Rogers et al. Docket No.
Attorney: Scott D. Sanford Telephone:
Filed: July 21, 2003 Express Ma
Sheet 11 of 12

Docket No.: 34741-872 Telephone: 415-984-8700

Express Mail Label No. EV 328 491387

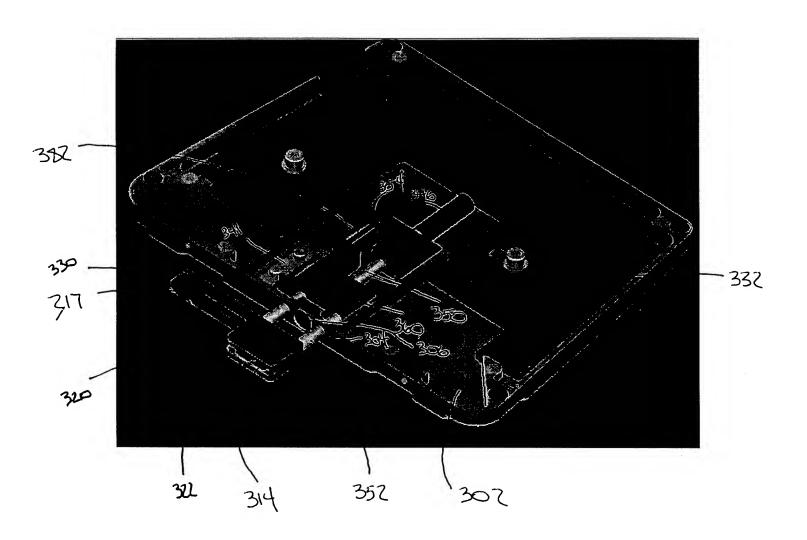
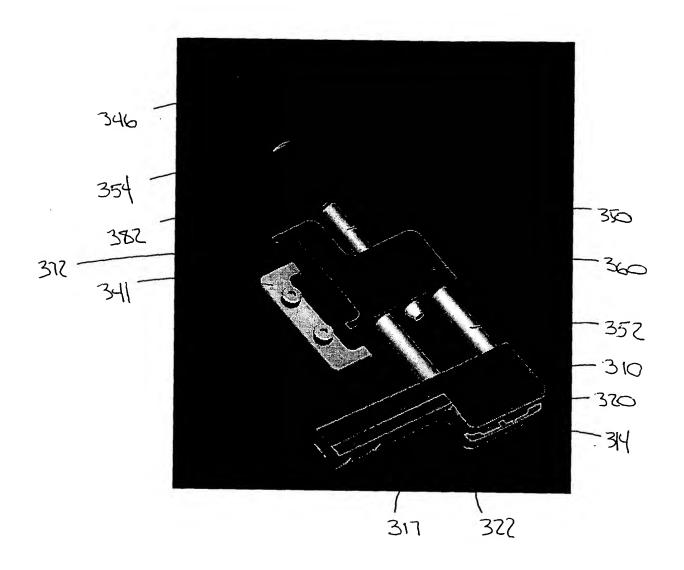


FIG. 12

Title: ACTIVE EDGE GRIPPING END EFFECTOR

Inventors: Theodore Rogers et al. Attorney: Scott D. Sanford Filed: July 21, 2003 Sheet 12 of 12

Docket No.: 34741-872 Telephone: 415-984-8700 Express Mail Label No. EV 328 491387



F19.13